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TITLE: Oil- and water-repellant material
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PATENT ASSIGNEE(S): Asahi Glass Co., Ltd.
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AB The addn. of polymers prep'd. from C1-18 alkyl acrylates or methacrylates and methylolacrylamide or methylolmethacrylamide to fluoroalkyl ***acrylate*** polymer oil-and waterproofing agents reduced the finishing costs while providing good oil and water repellency without any adverse effect on hand. Thus, a polymer prep'd. from 73% CH₂:CHCO₂CHCH₂(CF)_nCF₃ (a 4:3:2:1 mixt. of monomers with n = 4,6,8, and 10), 25% vinyl chloride, and 2% diacetoneacrylamide was mixed with an equal amt. of a 95:5 butyl ***acrylate*** -N-methylolacrylamide polymer [27157-48-8] and mixed with water to form an ***emulsion*** contg. 1% polymer. A 35:65 cotton-polyester fabric was padded with the ***emulsion*** to provide wet add-on 80% and dried 3 min at 100.deg. and 4 min at 150.deg.. The finished fabric had a soft hand as well as good oil and water repellency.